

PM8TSMD Owner's Manual

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Glossary Of Terms

LCD: Liquid Crystal Display. This is the “Virtual keyboard” on the remote.

LED: Light Emitting Diode, the red indicator at the top of the remote.

Button Frame: This is the square around a button in the LCD. It can have a name inside the square or the button can be just the “frame.”

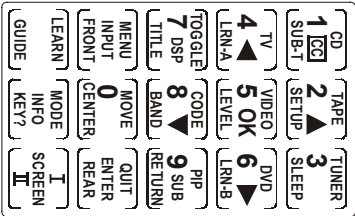
Mode button: This means any button in the LCD that changes the mode that the remote is in, e.g. TV, VCR, Cable, SAT, etc.

TV Sleep Timer event: A countdown timer to turn your TV off after some specified number of minutes you set.

Punch-through: A command that “punches-through from one mode to another, e.g., TV volume can work even while the remote is in VCR mode.

Backlighting: lights up the LCD so you can see it in the dark. Set to come on automatically in low light conditions.

Master Screen: The screen that shows all the possible button



Convention: In this manual button names shown in upper case and Bold are LCD screen buttons, e.g., **MODE**, **CODE**, **QUIT**, etc. Other names refer to the hard rubber buttons, e.g., TV, VCR, Power.

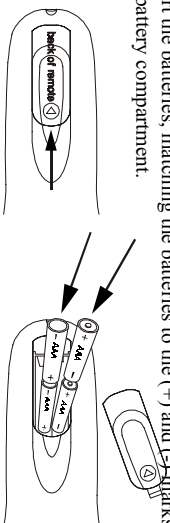
Battery Installation

labels, shown below.

Your LCD Universal Remote requires 4 new AAA alkaline batteries.

To install the batteries:

1. Turn the remote over; pull on the tab and lift the cover off.
2. Insert the batteries, matching the batteries to the (+) and (-) marks inside the battery compartment.



3. Slide the battery cover back into place.

Battery Saver

Your LCD remote automatically “times-out” if the buttons are depressed for more than about 30 seconds. This saves your batteries should your remote get stuck in a place where the buttons remain depressed (e.g., between the sofa cushions).

Code Saver

All programmed information is retained while changing batteries.

Power-On Default

When you first insert the batteries your LCD remote always powers-on in TV Mode.

LCD

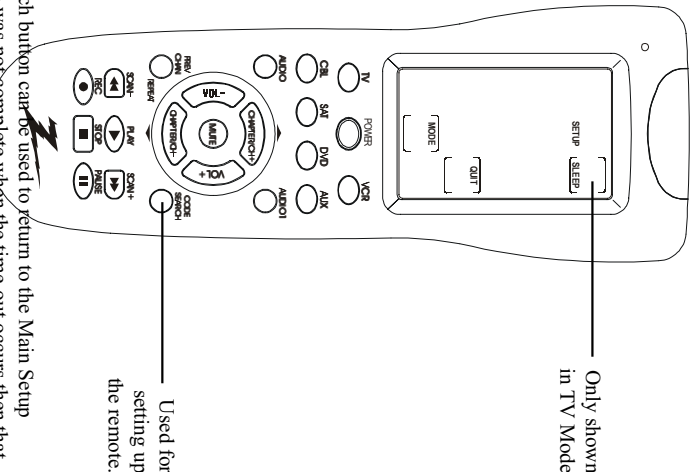
The Liquid Crystal Display (LCD) acts as a “Virtual Keypad.” The display has a 15 position segmented button area. The display is normally blank when the remote is not in use. Pressing the Code Search button, any Mode button, or

Code Search Button

touching anywhere on the LCD turns the display on. The remaining rubber buttons do not activate the display.

The Code Search button is used for setting up the remote. The red indicator (LED) blinks briefly when you press the Code Search button. To enter the Setup routines press and hold the Code Search button until the LED remains on. The Main Setup Screen shown below appears. Setup is used for direct Library Code entry, Code Searching, Code Identification., etc. Exit from Setup occurs automatically after 60 seconds if no button is pressed. In certain

Main Setup Screen



routines, the Code Search button can be used to return to the Main Setup Screen. If any operation was not complete when the time-out occurs then that operation remains unchanged at its original setting.

Notes

1. Pressing the LCD **QUIT** button when shown in a Setup routine, returns the display to Main Setup Screen. Any changes made prior to that point are discarded.
2. You can exit to normal operation by pressing the LCD **QUIT** button at the Main Setup Screen.
3. In some cases, pressing the Code Search button at any time in a Setup

Quick Setup Guide

- routine discards any changes made and returns to normal operation.
- Any Setup routine button entry error or code entry error causes the remote to give an error warning (3 beeps).

To program your remote to control your TV or VCR, or Cable, etc.:

- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release TV, VCR, etc.
- Press and release **CODE**.
- Enter 3 digit code.
- Press **QUIT**.

To search for a code (instead of using the code library list):

- Turn on the device (TV, VCR, etc.) to be controlled.
- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release TV, VCR, SAT, etc.
- Press and release **CODE**.
- Press the CHANNEL UP button repeatedly until the Device to be controlled changes channel.
- Press and release MUTE, or **OK** to install the code.
- Press **QUIT**.

To identify a code

- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release TV, VCR, SAT, etc.
- Press and release **CODE**.
- Press and release Code Search.
- The display shows the code using the LCD digits. The 3 digits are shown in sequence for 1 second each.
- Press **QUIT**.

To learn a command:

- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release TV, VCR, SAT, etc.
- Press and release **LEARN**.
- Press and release the LCD Remote button that you want to store a learned button under.
- Quickly point the **top** of your original remote at the **bottom** of the LCD remote and press and hold the original remote button that you want to learn until the LED blinks off once. To learn another button, press and release **LEARN** repeat from Step 6.

Quick Setup Guide, cont.

- To save and exit from the Learn routine, press and release **QUIT**.
- Press **QUIT**.

To turn on your TV or VCR, or Cable Box, etc.:

Press TV or VCR, or CBL.
Press Power.

To clear stored learned commands under a Mode:

- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release TV, VCR, SAT, etc.
- Press and release **LEARN**.
- Press and hold Code Search. Release when you hear a beep.
- Press **QUIT**.

To clear ALL stored learned commands:

- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release any Mode button (TV, VCR, SAT, etc.)
- Press and hold **LEARN**. Release when you hear a beep.
- Press **QUIT**.

To clear all stored Learned Commands, and User Programmed Codes, i.e., return to factory defaults:

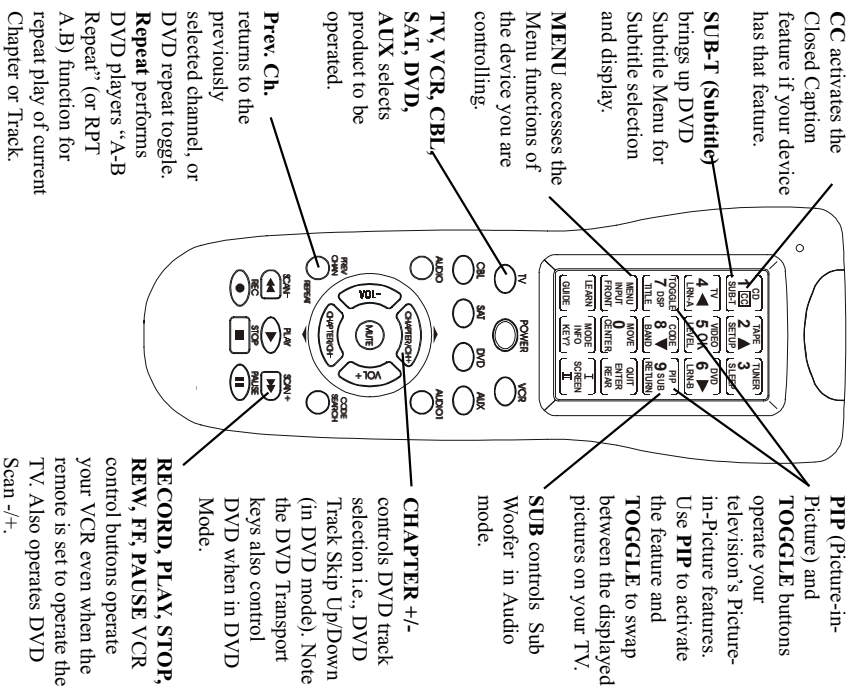
- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and hold Code Search for approximately 5 seconds until the LED blinks on then turns off. The screen goes blank.

The Default Reset is now complete and the remote will be in normal TV Mode.

To change the name for a button:

- Press and hold Code Search (the remote beeps).
- Release Code Search when you hear a second beep.
- Press and release **MODE**.
- Press and release TV, VCR, SAT, etc.
- Press and release **SCREEN**.
- Press any of the LCD buttons repeatedly within the current Mode to select the individual button segment display required. Press **SCREEN** to toggle between the two screens for that Mode.
- To save the Label selections for the current Mode screen, press the Mute button or the Code Search button.

Button/LCD Key Descriptions



DVD

Chapter+ and **Chapter-** hard buttons respectively locate the succeeding or preceding Chapters or Tracks on a disc.

TITLE LCD key brings up the DVD Title Menu screen.

SUB-T (Subtitle) LCD key brings up DVD Subtitle Menu for Subtitle selection and display.

RETURN LCD key goes back to previous on-screen selection.

INFO LCD key brings up DVD Display or Control Menu for Chapter/Track/Title number, Time remaining/elapsed indication, system information, etc.

MENU LCD key brings up the DVD disc Menu screen - use with the Up, Down, Left & Right navigation buttons.

OK LCD key is used for on-screen Menu selection. Note some DVD players require the Play button to be used.

QUIT LCD key is used to Exit or Clear on-screen Menu displays.

Play hard button is used to start Disc playback and for Menu selection on some DVD players.

Stop hard button stops Disc playback.

Pause hard button will pause Disc playback - press Play to resume.

Scan+ and **Scan-** hard buttons control the speed of Fast Forward and Reverse Playback respectively.

Repeat hard button performs DVD players "A-B Repeat" (or RPT A.B) function for repeat play of current Chapter or Track.

SAT

GUIDE LCD key displays on-screen Satellite Channel Guide.

Chapter+ and **Chapter-** hard buttons perform the "Page+" and "Page-" function for on-screen Guide Menus used by some Satellite systems.

INFO LCD key brings up Satellite Display screen for current Channel and system information.

MENU LCD key brings up the Satellite Menu screen - use with the Up, Down, Left & Right navigation buttons.

OK LCD key is used for on-screen Menu selection.

QUIT LCD key is used to Exit or Clear on-screen Menu displays.

INPUT LCD key performs the Satellite TV/SAT function.

Direct Library Code Entry

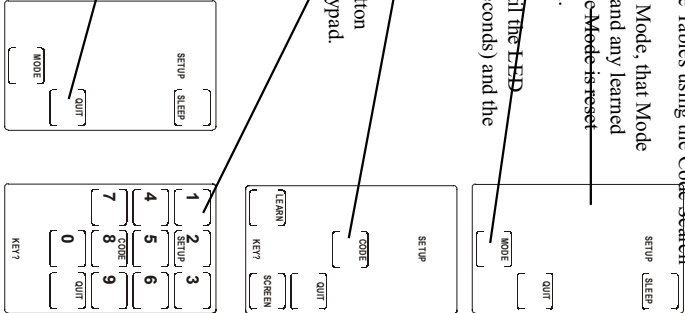
8. Press **QUIT**.

Preprogrammed and Learned codes are not affected by these changes.

To enter Codes directly from Library Code Tables using the Code Search button. When a valid code is entered for a Mode, that Mode is reset to its Default Button Label screen and any learned functions for that Mode are deleted i.e., the ~~Mode is reset~~ back to its power-on default configuration.

1. Press and hold Code Search button until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
2. Release the Code Search button.
3. Press and release **MODE**.
The LED blinks off once.
4. Press and release the desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad.
5. ~~Press and release CODE.~~
The LED blinks off once.
6. Enter the 3 digit Code from the Library Code Tables using the LCD number buttons.

For a valid code, the LED blinks off



Code Search

after the last digit is entered. For an invalid code, the LED flashes three times before going off. In both cases, the display returns to the Main Setup Screen.

7. Press **QUIT**.

If you can't find the code for your brand of product in the code list, you can search the entire Code Library for a particular device that might not be listed in the code list or is listed under a different manufacturer. When a valid code is entered for a Mode, the Default Button Label screen is used and any learned functions are deleted for that Mode i.e., the Mode is reset back to its power-on default setting.

1. Turn on the device (TV, VCR, etc.) to be searched.
2. Press and hold Code Search until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.

3. Release the Code Search button.
 4. Press and release **MODE**.
The LED blinks off once.
 5. Press and release desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad. The LED blinks off once.
 6. Press and release **CODE**.
The LED blinks off once.
 7. Press the CHANNEL UP button (or POWER or PLAY) on the rubber keypad repeatedly until the device to be controlled changes channel. If you overshoot the code track through the Library. Press CHANNEL DOWN to change direction to forward again.
 8. When the device to be controlled changes channel, press and release **OK**, or **MUTE** on the rubber keypad to install the code.
 9. Press **QUIT**.
- If the Device does not have a Channel Up button, use the Play (VCR or DVD only) or the Power button instead. Code Search starts from the currently stored code number under that Mode.

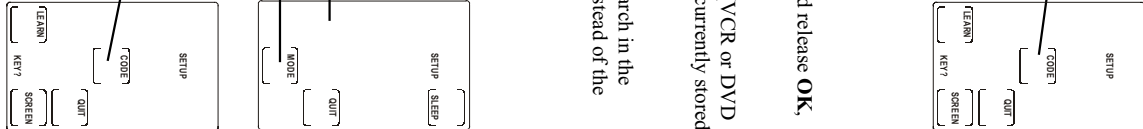
Reverse Code Search: It is possible to start a manual Code Search in the reverse direction by pressing the CHANNEL DOWN button instead of the

Code Identification

CHANNEL UP button.

Let's you identify codes installed in the remote.

1. Press and hold Code Search until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
2. Release the Code Search button.
3. Press and release **MODE**.
The LED blinks off once.
4. Press and release the desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad. The LED blinks off once.
5. Press and release **CODE**.
The LED blinks off once.
6. Press and release the Code Search button.
The LED blinks off once.
7. The display shows the code using the LCD digits. The 3 digits are shown in sequence for 1 second each. The LED blinks off for each digit displayed. This sequence is only



Code Learning

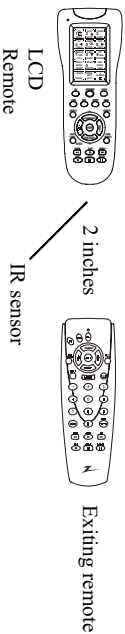
performed once then the display returns to the Main Setup Screen.

8. Press **QUIT**.

You can teach the LCD Remote to learn commands from your existing remotes. The Remote can store original remote commands consisting of up to 40 buttons each per Mode. Only one original remote type can be stored under any one Mode (see Tips on Learning). The Remote can also be pre-programmed with one of the library codes and then have Learned buttons "overlaid" in button positions of your choice.

Tips On Learning

1. Use fresh batteries for both the LCD remote and your original remote(s).
2. It is recommended that you perform a Master Reset before attempting any learning. Note this will reset all user programming back to factory defaults.
3. Place the original remote to the rear of the LCD remote so that the IR LED



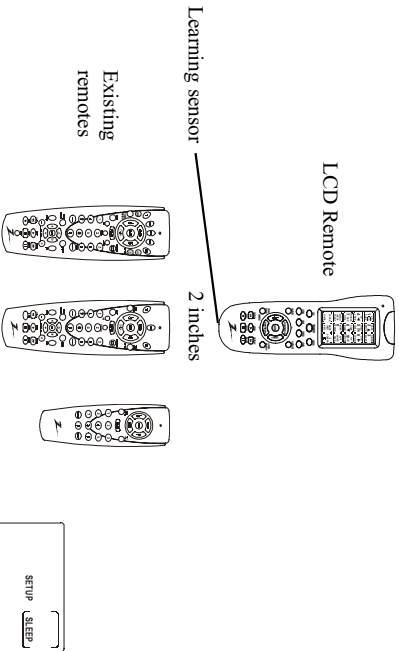
- on the front of the original remote is in line with the LCD remote's IR sensor, located below the hard button area. See diagram below.
4. Keep the distance between the two remotes to approximately 2 inches.
 5. Experiment by learning 2 or 3 buttons initially (to ensure compatibility and familiarity) and then carry out a Master Reset before completely learning your original remote's keyboard.
 6. Do not attempt to learn directly under an incandescent or low-voltage light as these can cause interference with the IR transmissions. Keep at least three feet away from any such light sources.
 7. When learning a button, do not release the button being learned until the

To Learn Commands

LED remains on and the LCD display returns (this can take 2-3 seconds).

No functions can be stored under the **LEARN**, **SLEEP**, Code Search, TV, VCR, DVD, Cable, SAT, AUX, Audio or Audio 1 buttons, or the **SCREEN** button.

Gather all the remotes that you want to learn "from" and have them all lined up on your coffee table side by side. Place the LCD Remote in front of your existing remotes so that the **top** of your existing remotes point at the **bottom** of the LCD Remote (see diagram on next page). You can then slide the LCD

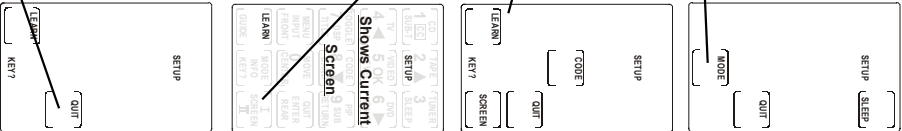


- Remote along the line of remotes as you learn commands from each of them in turn, making sure that you keep about 2 inches in between the remote you are learning from and the LCD Remote.
1. Press and hold the **Code Search** button until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
 2. Release the Code Search button.
 3. Press and release **MODE**. The LED blinks off once.
 4. Press and release desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad. The LED blinks off once.
 5. Press and release **LEARN**. The LED blinks off once.

The screen shows the current screen labels for that Mode. The **SETUP** and **LEARN** labels are also shown.

6. Press and release the LCD Remote button that you want to store a learned function under. Press **SCREEN** to toggle the screen labels displayed. The LED blinks off.
7. The display now shows a blank screen with just **SETUP** and **LEARN** labels. Press and hold the original remote button that you want to learn until the LED blinks off and the **LEARN/QUIT** key screen is displayed (this process can take up to 2 or 3 seconds to complete). To learn another button, press and release the **LEARN** key (on the **LEARN/QUIT** key screen) and repeat from Step 6.

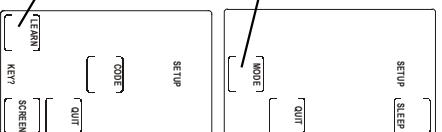
If there is a problem with learning the LED flashes three times. Go back to Step 6. If problems persist learning a particular remote, try Clearing the Learned commands under that Mode (see page 14) and start again. To abort learning, press Code Search once and return to the Main Setup screen



To Clear stored Learned Commands under a Mode

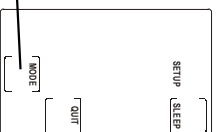
(i.e. back to step 3).

- To save and exit from the Learn routine press **QUIT**. The display returns to the Main Setup Screen.
- Press **QUIT**. Learning is ~~now complete~~.
- Press and hold the Code Search button until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
- Release the Code Search button.
- Press and release **MODE**.
- The LED blinks off once.
- Press and release desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad.
- The LED blinks off once.
- Press and release **LEARN**.
- The LED blinks off once.

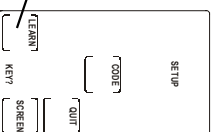


To Clear ALL stored Learned Commands

- Press and hold Code Search until the Main Setup Screen is displayed.
 - Press **QUIT**.
- All Learned Command entries under that Mode are now cleared.
- Cleares all stored Learned Commands in the Remote (recommended before first time learning).



- Press and hold the Code Search button until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
- Release the Code Search button.
- Press and release **MODE**.
- The LED blinks off once.
- Press and release any Mode button (TV, VCR, SAT, etc.) on the rubber keypad. The LED blinks off once.



Master Reset

- Press and hold **LEARN** until the Main Setup Screen is displayed (after approx. 5 seconds).
 - Press **QUIT**.
- All Learned Commands are now cleared.
- Resets the remote defaults back to the factory settings.
- Press and hold the Code Search button until the LED remains on and

Changing Button Labels

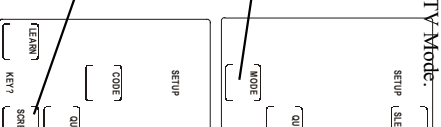
- display shows the Main Setup Screen.
 - Release the Code Search button.
 - Press and hold the Code Search button for approximately 5 seconds until the LED blinks on then turns off (the LCD goes blank).
- The Default Reset is now complete and the remote will be in TV Mode.

Lets you select which buttons and individual button label segments are shown in the display. You can select any LCD button for change except the **SCREEN** button. Each button can use any one of the available labels. Each button allows just the "frame" to be shown. ~~You~~ can even completely hide a button.

- Press and hold the Code Search button until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
- Release the Code Search button.
- Press and release **MODE**.
- The LED blinks off once.
- Press and release desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad.
- The LED blinks off once.
- Press and release **SCREEN**.
- The LED blinks off once.

The display shows the current labels for that Mode (Note this might not be the Default Labels). The **SETUP** and **SCREEN** labels are also shown.

- Press any of the LCD buttons multiple times within the current Mode to select the individual button label required. (Use **SCREEN** to toggle between the two screens for that mode). The LED blinks off to indicate

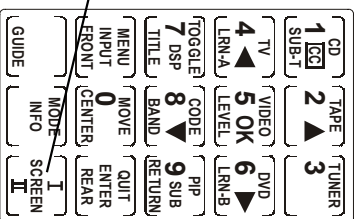


Restoring Default Button Labels

- each button keypress acceptance.
- To save the Label change selections, press the Mute button or the Code Search button. This then returns to the Main Setup Screen.
 - Press **QUIT**.
- The Button Label change routine is now complete. Preprogrammed and Learned codes are not affected by these changes.
- Press and hold the Code Search button until the LED remains on (after approximately 2-3 seconds) and the display shows the Main Setup Screen.
 - Release the Code Search button.
 - Press and release **MODE**. The LED blinks off once.
 - Press and release desired Mode button (TV, VCR, SAT, etc.) on the rubber keypad. The LED blinks off once.
 - Press and release **SCREEN**. The LED blinks off once.

Restoring Default Labels, cont.

- The display shows the current labels for that Mode. The **SETUP** and **SCREEN** labels are also shown.
- To reset the current Mode button labels back to their Default settings, press and hold the current Mode button (TV, VCR, SAT, etc.) on the rubber keypad until the Main Setup Screen is shown.
- Press **QUIT**.
The display shown to the right shows **ALL** the

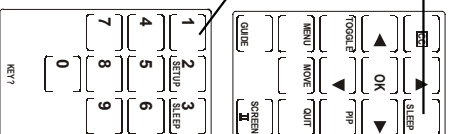


Setting a TV Sleep Timer

possible labels, although only the options for the Mode you selected are shown at any one time.

Note:

- Resetting the Mode button labels back to their power-on default setting, results in an automatic save for that Mode.
- You cannot change the **SCREEN** button. The Sleep Timer feature lets the remote turn off your TV after a period of 1 to 99 minutes. The **TV Sleep command** is sent at the end of the timed period. The **LCD SLEEP** button is used for setting a TV Sleep Timer and is only available in TV Mode. The **LCD SLEEP** button is not revealed for any other Mode that you might have set for TV.



- Press the TV Mode button.
- Press **SCREEN** to toggle to the TV screen that displays the **SLEEP** button, shown here.
- Press and hold **SLEEP** until the LED remains on (after approx. 2-3 seconds).
- Release **SLEEP**.
- Press and release **TWO** numeric keys (01-99) for the time required. E.G., 0, then 7 for 7 secs. The LED blinks off and the display returns to normal operation.
- The TV Sleep Timer is now set.
- Leave the Remote pointing towards your TV with an unobstructed path.

Advanced Options/Features

To cancel a Sleep Timer, press and release the **POWER** button in TV Mode or press and hold **SLEEP** until the remotes beeps twice, and the LED blinks twice.

Notes

- Entering Setup using the Code Search button clears any previously set Sleep Timer.
- If the TV Power button has been learned then the learned command is sent when the Sleep Timer is activated.

TV or CD/Audio Volume/Mute Punch-Through

User selectable TV or Audio Device Volume Punch-through is a feature which lets you select which device is controlled by the Volume/Mute keys. Normally other types of remotes punch-through to the device programmed under the TV Mode when the Volume/Mute keys are pressed e.g. when in DVD Mode, pressing Volume/Mute operates the TV sound. With this remote you can select TV, or one of the programmed Audio devices, as the volume punch-through target e.g. if you use your A/V Amplifier for sound then pressing Volume/Mute buttons in any Mode can control your A/V Amplifier sound.

The Mode selected for Volume punch-through control must be either TV Mode, or an AUDIO Mode programmed with a CD or Audio Device. Any other selection (VCR, DVD, CBL, SAT) is denied with an LED "error flash." The power-on default is TV Volume punch-through.

Note: When TV is the punch-through device, all CD/Audio Modes take any Volume/Mute button press commands from the CD/Audio code. All other device types punch-through to TV Volume/Mute control. When CD/Audio is the punch-through device, all Modes take any Volume/Mute button press commands from that CD/Audio code.

- Press and hold the Code Search button until the LED remains on (after approximately 2-3 seconds) and the Main Setup Screen is shown.
- Release the Code Search button.
- Press and hold the Mode button for device you want the Volume buttons to control (e.g. AUX, or AUDIO) until the LED blinks.
- Press **QUIT**.
The Default Volume Control is now set for that Mode.

VCR/DVD Punch-Through

This remote lets you Punch-through to the last VCR or DVD device used. Normally other types of remotes only punch-through (from another Mode) on the 6 VCR carriage keys, to the device programmed under the VCR Mode key. This is not much use if you are using a DVD programmed under a Mode other than VCR. This remote punches-through to the last VCR or DVD device you used. For example, if you have 3 DVD/VCR devices programmed into this remote, the last one you accessed on the remote will be the one that has control

of the 6 VCR/DVD keys when in any other mode.

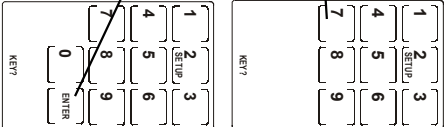
VCR Record

In VCR Mode (including punch-through), the Record button has to be pressed twice before the command is sent. This is also true if a VCR type is programmed under any other Mode. The exceptions are for DVD and SAT codes where the Record button transmits the command after only a single press of the Record button. In any CD/Audio Mode, the Record button must also be pressed twice.

LCD Panel and Backlight On-time

The LCD Panel and Backlighting remain on for a user-selectable time period (10, 20, 30, ..., 90 seconds). The power-on default is 10 seconds from the last button press. To change the LCD/Backlight On-time:

- 1. Press and hold the Code Search button until the LED



remains on (after approximately 2-3 seconds) and the Main Setup Screen is shown.

- 2. Release the Code Search button.
- 3. Press the Code Search button again, and release.
- 4. Press and release a digit key 1-9 (1=10 seconds, 2=20 seconds, etc.). The LED blinks.
- 5. Press and release ENTER (or Mute on the rubber keypad) to save the setting. The display shows the Main Setup Screen.
- 6. Press QUIT.

LCD/Backlight On-time setting is now complete.
Button Press Acknowledge Beep Feature

When any button is pressed, an audible beep is heard to acknowledge the button press. This beep can be toggled on or off. The default state is enabled (ON). To change this:

- Mode TV VCR/DVD CBL SAT AUDIO
- 1. Press and hold the Code Search button until the LED remains on (after approximately 2-3 seconds) and the Main Setup Screen is shown.
- 2. Release the Code Search button.
- 3. Press and hold MUTE until the LED blinks.
- 4. Press QUIT.

The Beep Feature is now toggled OFF and Main Setup Screen is shown. Repeat above steps to toggle Beep ON.

Mode Assignments

Web TV	AV Recr.
MD	

INPUT LCD Key

The INPUT button performs the TV/VCR antenna switch function when in VCR Mode.

The INPUT button performs the A/B switch function when in Cable Mode.

The INPUT button performs the TV/SAT switch function when in SAT Mode.

TV/VCR and TV/DVD Combo units

Note that for some TV/VCR and TV/DVD combo units you might need to set up two different buttons to control both parts of the combo unit. E.G., (referring to the Direct Code Entry section on page 10) you might need to set up a code under the TV button to control the TV part of the combo unit AND a separate code for the VCR or DVD under any other button you choose.

Code List

TV

ABEX	120
ADMIRAL	701 918
ADVENTURA	019
AIKO	407
AIWA	121 221
ALLERON	206
AMARK	603
AMTRON	906
AKAI	801
AMSTRAD	520
ANAM NATIONAL	104 805
AOC	901 906 920
ARCHER	603
AUDIOVOX	906
BANG & OLUFSEN	620
BELCOR	002
BELL & HOWELL	506 601 701
BRADFORD	906
BROKSONIC	215 316
BROKWOOD	002
CANDLE	002 019 402 502
CAPEHART	119
CELEBRITY	801
CENTRION	502
CETRONIC	805
CITIZEN	002 112 319 402 407
CLAIRTONE	502 512 701 805 906
CLASSIC	003
CLP	805
CLP CLASSIC	021
CLORLYME	004 003 002
CONCERTO	002 502 602
CONCERGE	002 502
CONTEC/CONY	713
CRAIG	003 802 805 902 906
CROWN	805 906
CURTIS MATHES	002 103 112 502
CXC	506 512 601 701 704
DAEWOO	002 102 110 214 303
DAYTRON	311 314 403 407 415 502
DEMENSIA	503 611 614 805 809 909
DUNONT	002 502
DYNASTY	601 704
ELEKTRA	002 713
ELECTROBAND	701
ELECTROHOME	003 801
EMERSON	002 502 803 901 914
	002 003 004 005 104 105
	106 115 204 205 206 213 304 305
	316 319 405 502 505 506 519 604
ENVISION	605 705 804 805 903 904 905 906
FISHER	002 502
FUJITSU	506 522 606 619 902
FUNAI	206 321
	206 805 906

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FUTURETEC	805 906
GE	002 006 007 018 107 114 310 312
GIBBALTER	502 601 704 719 803 806 810 901 911
GOLDSTAR	002 713
GRUNDY	002 102 117 207
HALLMARK	217 307 502 818 914
HARVARD	206 906
HITACHI	002 502
	002 016 116 216 315
	410 502 507 515 519 607 615
IMA	622 701 707 710 713 815 902 915
INFINITY	906
INTEQ	807
JANEL	713
JBL	019
JCB	807
JC PENNY	801
	002 007 102 107
	112 310 312 402 502 512
JENSEN	601 704 719 803 806 818 907
KAWASHO	002 502
KAYPANI	007 107 108 308 310 607 902
KEC	002 502 801
KENWOOD	119
KLOSS NOVABEAM	805
KONKA	002 502 914
KTV	019 408 508
LODGENET	203 208 219 306 317 417
LOEWE	003 213 319 608 705 805 906
LOGIK	601 701
LUXMAN	722 807
LXI	002 312 502 506
MAGNAVOX	002 502
	512 601 704 719 807
	002 009 109
	118 209 309 402 408
MAJESTIC	502 508 510 807 914 917
MARANTZ	601 701
MEGATRON	002 502 807
MEI	002 502 507
MEWOREX	003
MGA	002 115 206 502
MIDLAND	506 601 701 706
MINUTZ	002 102 206 502 619 803 914
MITSUBISHI	007 107 312 713 719 818
	806
	002 102 206 502
MONTGOMERY WARD	510 619 709 803 814 914
MOTOROLA	601 701
MTC	901 918
MULTITECH	002 003 102 112 502 512
MULTIVISION	906
NAD	002 120 502 910
NEC	002 102 510 111
	502 510 602 901
NIKEI	805
NIKKO	002 407 502
NTC	407

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ONKING	805
ONWA	805 906
OPTIMUS	120 618
OPTONICA	111 918
ORION	105 115 713
PANASONIC	007 107 416 516
	608 618 718 807 901
PHILCO	002 009 102 109 309
	002 009 920 109 122
PHILIPS	202 209 210 222 310 322
	402 408 502 508 510 807
	822 901 914 917 919 922
PHILIPS/MAGNAVOX	020 422 919 922
PILOT	002
PIONEER	002 120 502 519 610
PORTLAND	002 102 407 502
PRECISION	218
PRICE CLUB	112
PRISM	107
PROSCAN	312 601 704 719
PROTON	002 119 220
PULSAR	502 820 910
PULSER	713
QUASAR	007 107 416 516
	608 618 718 807 901
RADIO SHACK/REALISTIC	002
	021 111 117 406 502 506 601
RCA	618 704 705 805 818 906 914
	002 021 011 102 211 302 312
	318 320 406 409 411 420 502
	511 514 519 601 702 711 719
RAHPSODY	912 914
RUNCO	809 811 901 909 911 912 914
SAMPO	003
SAMSUNG	002 119 502 818
	002 012 102 103 112
	212 502 512 818 914
SAMSUX	502
SANSUI	115 215
SANYO	002 412 506 522 612 619 902
SCOTCH	002 502
SCOTT	002 004 105
SEARS	206 502 805 906
	002 112 206 312 502 506
SEARS	512 520 601 612 619 704 719 902 914
SHARP	002 013 014 111 502
	509 712 812 813 913 918
SHOGUN	002
SIGNATURE	601 701 903
SIMPSON	402
SONIC	003
SONY	202 414 708 801
SOUNDSIGN	002 206 402 502 805 906
SPECTRAVISION	921
SQUAREVIEW	520
SSS	002 805 906
STARLITE	906
SUPREMACY	019
SUPREME	801

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VCR

SYLVANIA	002 009 109 209 309
	402 408 502 508 717 807 914 917
SYMPHONIC	520 904 906
TANDY	918
TATUNG	901
TECHNICS	007 107
TECHWOOD	002 007 107 502
TEKNIKA	002 019 102 112
	206 209 402 407 502 512
TELECAPTION	601 618 701 805 902 906
TERA	313
TELERENT	601 701
TMK	002 220
TOSHIBA	002 502
	112 313 413 419 506
UNIVERSAL	510 512 517 613 902
VICTOR	310 806
VIDTECH	607
VIKING	002 102 502
WARDS	009
	002 004 009 102 109
	111 206 209 310 408 502 508
WHITE WESTINGHOUSE	513 601 701 704 806 807 914
YAMAHA	311 611
ZENITH	002 102 502 914
	002 008 115 215 405
	407 507 601 701 713 903 916

DBX.....	025 436	NEC.....	025 235 428 526 530
DIMENSTA.....	124	NIKKO.....	725 731 831 931 436
DYNATECH.....	324 726	NOBLEX.....	425
ELECTROHOME.....	027 525	OLYMPUS.....	130 226
ELECTROPHONIC.....	525	OPTIMUS.....	035 224 525
EMERSON.....	027 028 127 128 130 226	.....	537 737 837 937
.....	227 228 324 325 327 427	OPTONICA.....	537 631
.....	428 525 526 527 528 625	ORION.....	227
.....	626 627 628 630 634 724	PANASONIC.....	035 039 130 226
.....	726 727 735 827 828 927	.....	635 636 937 938
FISHER.....	025 029 129 328	PENTAX.....	136 629 725 834
.....	330 426 428 928	PENTEX RESEARCH.....	025
FUJI.....	130 226 524	PHILCO.....	130 226 330 635
FUNAI.....	324 726 924	PHILIPS.....	130 226 330 430 434
GARRARD.....	726	.....	439 536 631 734 738 934 937
GE.....	124 130 136 226 425 429 635 835	PHILIPS/MAGNAVOX.....	434 934
GOLDSTAR.....	025 236 525	PILOT.....	525
GRADIENTE.....	726	PIONEER.....	132 532 436 629
GO-VIDEO.....	139 438 537	PORTLAND.....	026 135 725 825
HARLEY DAVIDSON.....	726	PROSCAN.....	124
HARMAN KARDON.....	025 930	PROTEC.....	230
HARWOOD.....	230	PULSAR.....	534
HEADQUARTER.....	428	QUARTER.....	428
HITACHI.....	136 235 324 336	QUARTZ.....	428
.....	538 629 638 829 834	QUASAR.....	039 130 635 636 937
HI-Q.....	426	RCA.....	033 124 130 133 136 226
INSTANT REPLAY.....	130 226 924	.....	233 332 424 425 432 532 629
INTERO.....	525	RADIOSHACK.....	636 732 832 834 835 837 932
JCL.....	130 226	.....	027 029 035
JC PENNEY.....	025 130 235 425	.....	124 129 130 224 226 324
.....	428 436 525 629 635 834 935	.....	335 425 426 428 525 631
JENSEN.....	235 629	RADIX.....	635 726 737 835 837 937
JVC.....	025 235 239 326 339 428 436	RANDEX.....	525
KENWOOD.....	025 235 428 436 725	.....	525
KLH.....	230 237	REALISTIC.....	027 029 035 124 129
KODAK.....	130 226 525	.....	130 224 226 324 335 425 426
LLOYD.....	324 726	REPLAY.....	428 525 631 635 726 737 837 937
LOGIK.....	230	.....	938
LXI.....	525	RICOH.....	936
MAGNAVOX.....	130 226 330	RINCO.....	534
.....	534 536 635 734	SAMSUNG.....	429 537 624 625 629
MAGNIN.....	425	.....	037 335 425 427
MARANTZ.....	025 130 226 330	SANKY.....	224 534
.....	428 436 530 535 725	SANSUI.....	335 333 436
MARTA.....	525	SANYO.....	328 425 426 428
MATSUSHITA.....	130 226	SCOTT.....	325 327 433 625
MEI.....	130 226	.....	626 630 735 927
MEMOREX.....	130 224 226 324	SEARS.....	029 129 130 226 330 426
.....	335 425 426 428 525 534 726	.....	428 525 629 834 928 935
MGA.....	027 630	SHARP.....	027 224 324 338
MGN TECHNOLOGY.....	425	.....	631 637 737 825
MIDLAND.....	429	SHINTOM.....	230 337 524 629 936
MINOLTA.....	629 834	SHOGUN.....	425
MITSUBISHI.....	027 031 131 229	SIGNATURE.....	324
.....	224 631	SINGER.....	130 226 230
MONTGOMERY WARD.....	130 224 226	SONY.....	034 038 138 238 524 838 936
MOTOROLA.....	324 425 726	STS.....	130 226 629 834
MTC.....	324 425	SYLVANIA.....	130 324 330 336 630 635 726
MULTITECH.....	726 429 726	SYMPHONIC.....	225 324 726
.....	324 428	TANDY.....	324 428

TASHIKO.....	525	PARAGON.....	250
TATUNG.....	235	PHILIPS.....	150 549 650 748
TEAC.....	235 324 726	.....	750 848 850 948
TECHNICS.....	035 130 226	PIONEER.....	051 451 950
TEKNIKA.....	130 134 226 324 525 726	PULSAR.....	250
TIVO.....	738 838	RADIO SHACK.....	055 152 154
TOSHIBA.....	029 330 433	RCA.....	352 647
.....	625 629 630 735	REALISTIC.....	548
TOTEVISION.....	425 525	REGAL.....	849
TNK.....	425 526 828	REGENCY.....	349
UNITECH.....	425	REMBRANDT.....	947
VECTOR RESEARCH.....	025 436 625 725	RUNCO.....	250
VICTOR.....	436	SAMSUNG.....	049 051
VIDEO CONCEPTS.....	025 027 436 625 725	SCIENTIFIC ATLANTA.....	248 251
VIDEOSONIC.....	425	.....	351 451
WARDS.....	027 130 224 226 230	SIGNAL.....	049 449
.....	234 324 425 426 525	SIGNATURE.....	947
WHITE WESTINGHOUSE.....	625 629 631 726 735 834	SI-MARX.....	049
.....	324 924	SPRUCER.....	647
XR-1000.....	130 226 230 726	STANDARD COMPONENTS.....	551
YAMAHA.....	025 235 428 436	STARCOM.....	348 449 747
ZENITH.....	030 036 125 326	STARGATE.....	049 449
.....	436 437 524 525 534 632	STAR SIGHT.....	653
.....	638 729 824 925 929 936	STAR SIGHT CABLE SERVICE.....	352
.....		STARQUEST.....	449
.....		STAR TRAK.....	253
.....		TANDY.....	651
.....		TELEVIEW.....	049
.....		TELEWEST.....	854
.....		TEXSCAN.....	551
.....		TOCOM.....	048 751 952
.....		TOSHIBA.....	250
.....		TUSA.....	449
.....		TV-86.....	350
.....		UNIKA.....	448 548 748
.....		UNITED ARTISTS.....	847
.....		UNITED CABLE.....	747
.....		UNIVERSAL.....	448 548
.....		.....	648 748 851
.....		VIDEOWAY.....	052
.....		VIEWSTAR.....	149 150 350 651
.....		VIDEO TECH.....	656
.....		ZENITH.....	054 154 250 353 354
.....		.....	450 553 653 753 853 951 953 954

Cable

ABC.....	048 148 248 348 747 847 947	AMERICAN CAST.....	054 154
ALLGRO.....	354	ANTIRONIX.....	448 548
AMERICAST.....	354	ARCHER.....	448 548 648 748
ANTRONIX.....	448 548	AT&T.....	752
ARCHER.....	448 548 648 748	CABLETEENNA.....	448
AT&T.....	752	CABLEVIEW.....	448
CABLETEENNA.....	448	CENTURY.....	748
CABLEVIEW.....	448	CITIZEN.....	748
CENTURY.....	748	COLOUR VOICE.....	848 948
CITIZEN.....	748	COMTRONICS.....	049 149
COLOUR VOICE.....	848 948	CONTEC/CONY.....	249
COMTRONICS.....	049 149	EASTERN.....	349
CONTEC/CONY.....	249	GARRARD.....	748
EASTERN.....	349	GC ELECTRONICS.....	548
GARRARD.....	748	GEMINI.....	449 549
GC ELECTRONICS.....	548	GE.....	556
GEMINI.....	449 549	GENERAL INSTRUMENT.....	053 453 454
GE.....	556	.....	552 554 654 752 754 947 952
GENERAL INSTRUMENT.....	053 453 454	HANLIN.....	649 749 849
.....	552 554 654 752 754 947 952	HITACHI.....	947
HANLIN.....	649 749 849	HYTEK.....	847
HITACHI.....	947	JASCO.....	748
HYTEK.....	847	JERROLD.....	048 050 148 254 348
JASCO.....	748	.....	449 454 552 554 652 747 752 947
JERROLD.....	048 050 148 254 348	MAGNAVOX.....	150
.....	449 454 552 554 652 747 752 947	MEMOREX.....	250
MAGNAVOX.....	150	MOVIE TIME.....	350 847
MEMOREX.....	250	NSC.....	350 847
MOVIE TIME.....	350 847	OAK.....	249 550 847
NSC.....	350 847	PACE.....	854
OAK.....	249 550 847	PANASONIC.....	452 647
PACE.....	854	.....
PANASONIC.....	452 647	.....

SAT

AMPLICA.....	159	CHANNEL MASTER.....	359 459 559
.....	359 459 559	CHAPARAL.....	657 659 757
CHANNEL MASTER.....	359 459 559	CHEYENNE.....	757
CHAPARAL.....	657 659 757	DRAKE.....	059 560 857
CHEYENNE.....	757	DISH NETWORK.....	067 566 460
DRAKE.....	059 560 857	.....	464 560 660 962
DISH NETWORK.....	067 566 460	DX ANTENNA.....	458 859
.....	464 560 660 962	ECHOSPHERE.....	464
DX ANTENNA.....	458 859	ECHOSTAR.....	067 566 460
ECHOSPHERE.....	464	EXPRESSVU.....	464
ECHOSTAR.....	067 566 460	FUJITSU.....	760 860
EXPRESSVU.....	464	.....
FUJITSU.....	760 860	.....

GE.....	265 863	MARANTZ.....	441 442
GENERAL INSTRUMENTS.....	058 066	MICROSOFT X-BOX.....	542
HITACHI DSS.....	158 166 258 665 865 960 965	MTSUBISHI.....	841
HUGHES SATELLITE DSS.....	765 864	MUSTEK.....	744
JANEL.....	664 864 964	NAD.....	944
JERROLD.....	261	NAKAMICHI.....	844
JVC.....	361	ONKYO.....	843
KENWOOD.....	466	OPTIMUS.....	042 545
LUXOR.....	561	ORITRON.....	143
MAGNAVOX DSS.....	259 565 862	PANASONIC.....	641 741
MACOMSTATE.....	661	PHILIPS.....	441 442 943
NORSTAT.....	761 861	PIONEER.....	042 545
PACE.....	063 163 266	PROSCAN.....	941
PANASONIC DSS.....	260 264	RADIOSHACK.....	835 945
PRIMESTAR.....	364 665	RCA.....	644 833 941 945
PHILIPS.....	259 565 862	SAMSUNG.....	342
PHILIPS/MAGNAVOX.....	259 565 862	SAMPO.....	343
PIONEER.....	060	SEG.....	444
PROSCAN.....	265 863	SHARP.....	341
RCA DSS.....	566 265 866 966	SHERWOOD.....	144
REALISTIC.....	358 961	SHINCO.....	644
SAMSUNG.....	061	SONY.....	541
SCIENTIFIC ATLANTA.....	362	SONY PS2.....	086 841
SHARP.....	062	TEAC.....	042 545
SHERA I II III.....	757	THETA DIGITAL.....	042 545
SONY DSS.....	160 963	TOSHIBA.....	245 411
STAR CHOICE.....	364 665	WHARFEDALE.....	845
STAR SIGHT.....	964	YAMAHA.....	641 643
STAR TRAK.....	462	YAMAKAWA.....	445
STS.....	458 558 658 758	ZENITH.....	142 241 345
SUPER GUIDE.....	562		
THOMSON.....	063		
TOSHIBA.....	858	DENON.....	132
TOSHIBA DSS.....	064 164 764	PIONEER.....	132
UNIDEN.....	762 958	PROSCAN.....	432
UNIDEN DSS.....	964	RCA.....	432
VIDEO CIPHER II.....	059	SANYO.....	824
ZENITH.....	059 065 163 165	SONY.....	933
	266 360 857 957	ZENITH.....	824

DVD

AIWA.....	043	ADC.....	667
AKAI.....	141	ADCOM.....	073 767
APEX.....	044	AIWA.....	787 867 885 967
DAEWOO.....	046 645 745	AKAI.....	173 375 684
DENON.....	641 743	AUDIO TECHNICA.....	168
ELTA.....	045 145	CALIFORNIA AUDIO LABS.....	273
EMERSON.....	241	CAPETRONIC.....	568
FISHER.....	243	CARVER.....	184 268 368 468
GE.....	644	CASIO.....	379
GO-VIDEO.....	244 342	CITIZEN.....	284
HITACHI.....	042 543 545	CURTIS MATHIES.....	379
HARMAN/KARDON.....	344	DENON.....	668
JVC.....	242 443	EMERSON.....	767 868 968
INTEGRA.....	843	FISHER.....	169 269 368 369 473
KENWOOD.....	544 641	GE.....	174
KONKA.....	642 742 842 942	GENEXXA.....	469 573 868 968
MAGNAVOX.....	441 442	GOLDSTAR.....	673

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CD

Laser Disc

HARMAN/KARDON.....	669 770	AIWA.....	585 687 786 885
HITACHI.....	469	CARVER.....	184
INTEL.....	769	CITIZEN.....	284
JC PENNEY.....	379 670	DENON.....	383 981
JVC.....	869 982	FISHER.....	083 783
KENWOOD.....	070 170 374 474 484 969	GOLDSTAR.....	278
KRELL.....	268	HARMAN/KARDON.....	082 483
KYOCERA.....	667	JVC.....	583 680 982
LUXMAN.....	270 370 475 574	KENWOOD.....	283 482 484 884 969
LXI.....	379 868	MAGNAVOX.....	083 281
MAGNAVOX.....	268 681 774	MARANTZ.....	084 470
MARANTZ.....	268 470 570 874	NAD.....	575 773 975
MCS.....	379 670	ONKYO.....	182 782 882
MGA.....	770	OPTIMUS.....	077 368 576 476
MISSION.....	268		
MTSUBISHI.....	770 870		
NAD.....	773 975		
NAKAMICHI.....	071 784 970		
NEC.....	670		
NIKKO.....	168 269 968		
NSM.....	268		
ONKYO.....	171 271 782 873		
OPTIMUS.....	070 076 368 571 376		
	468 469 471 571 671 776 868		
PANASONIC.....	273 675 974		
PHILIPS.....	184 268 774		
PIONEER.....	289 385 469 573 676 771 871		
PROTON.....	268		
QUASAR.....	089 272 289		
RADIOSHACK.....	468 571 676		
RCA.....	086 089 181 289 368		
REALISTIC.....	676 767 868 971 973 988		
	570 571 767 868 968		
ROTEL.....	268		
SAE.....	268		
SAMSUNG.....	072 075 268 868 973		
SANSUI.....	172 175 368 473 875		
SANYO.....	767 868 968		
SCOTT.....	070 379 570 868		
SEARS.....	070 569 570		
SHARP.....	272 471 570 587 769		
SHERWOOD.....	670		
SHURE.....	081 372 472 681 880		
SONY.....	667		
STS.....	667		
SYLVANIA.....	572		
SYMPHONIC.....	269 287 570		
TEAC.....	571 572 672 772		
TECHNICS.....	273 683 887 974		
THEA DIGITAL.....	774		
TOSHIBA.....	773		
VICTOR.....	869		
YAMAHA.....	074 168 286 872 972		
ZENITH.....	080 269 577 674 686		

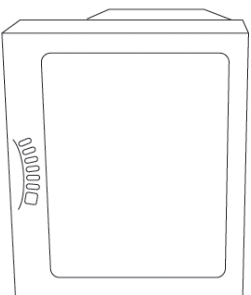
Audio

AIWA.....	585 687 786 885
CARVER.....	184
CITIZEN.....	284
DENON.....	383 981
FISHER.....	083 783
GOLDSTAR.....	278
HARMAN/KARDON.....	082 483
JVC.....	583 680 982
KENWOOD.....	283 482 484 884 969
MAGNAVOX.....	083 281
MARANTZ.....	084 470
NAD.....	575 773 975
ONKYO.....	182 782 882
OPTIMUS.....	077 368 576 476
	576 676 776 876 980
PANASONIC.....	183 682
PHILIPS.....	083 084 184 983
PIONEER.....	288 385 388 489
RADIOSHACK.....	077 188 189 272 282
RCA.....	288 388 489 589 980 985
	181 189 288 373 384 388
REALISTIC.....	489 589 688 779 788 878 888
SANSUI.....	883
SANYO.....	172
SCOTT.....	478
SHARP.....	070 582 768
SHERWOOD.....	272 282 487 587
SONY.....	085 180 185 285 381
	479 481 581 984 985
TEAC.....	187 287 382 387 672
TECHNICS.....	088 183 682 780 983 987
VENTURER.....	176
YAMAHA 2.....	86 386 485 486
	586 685 781 785 881
ZENITH.....	080 083 178 269
	278 576 577 674 686

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Product Operation

After the batteries are installed and you have programmed the remote for the codes that operate your products, you can use your remote to operate a TV, VCR, Cable Box, DVD Player, or Satellite System, etc.



TV (Press **TV** First)



VCR
(Press **VCR** First)



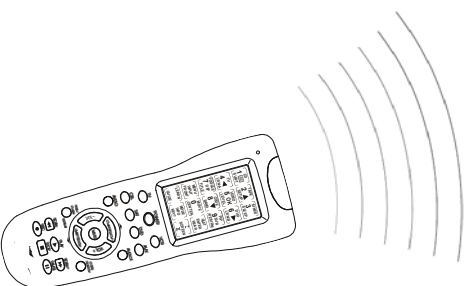
DVD Player
(Press **DVD** first)



Cable Box
(Press **CBL** first)



Satellite System
(Press **SAT** first)



To Operate:

1. Press the TV, VCR, DVD, CBL, etc. button (depending on which product you want to operate).
2. Aim the remote at the product.
3. Press **POWER** to turn on the product.
4. Press other buttons to operate the features of your product.

Troubleshooting

PROBLEM

LCD does not show anything when you touch it, or press the Setup button

SOLUTION

- Replace the batteries with 4 new AAA alkaline batteries.
- Check batteries are properly installed.

The remote does not operate your audio or video devices

- Try all code programming procedures with all the codes from the appropriate part of the Library Code Tables.
- Wrong distance or angle? The remote functions from a distance of 20 feet?

Problems programming a TV/VCR combo unit

- Try the VCR code for your brand. Some combo units, however, might require both the TV and VCR code for full operation. To do this program the TV code under the TV button and the VCR code under the VCR button.

VCR not recording

- As a safety feature on your remote, you must press **REC** twice.

Problems changing channels

- If your original remote requires **ENTER** to be pressed after a channel is selected, press **ENTER** to select the channel.

IR LEARN cannot be made successfully

- Replace batteries in the LCD Remote and the remote you are trying to learn from.
- Keep the distance between the remotes to about 2 inches.
- Do not learn near an incandescent lamp.

90 Day Warranty

This product is manufactured to Philips specifications and is free from defects in material, workmanship and assembly. This warranty extends only to the original purchaser and is nontransferable. Should a defect occur under normal operating conditions within 90 days from the date of purchase, Philips will provide a comparable replacement free of charge within the warranty period, to the original purchaser. Defective product must be returned, with the dated proof of purchase, to the place of purchase for replacement. This warranty does not extend to the product if it has been damaged or rendered defective as a result of accident, misuse, abuse, tampering with or modification. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL PHILIPS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN CONTRACT, TORT OR NEGLIGENCE. Some States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some States do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights and you may also have other rights, which vary from State to State.

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Clifton, NJ 07014-1115